

**Interim Report to the Maryland General Assembly  
concerning**

**Implementation of the Dredged Material  
Management Act of 2001**

**December 2001**

# **APPENDIX B**

**UPDATED OPTIONS ONLY**

**Executive Committee  
Maryland Dredged Material Management Program  
State of Maryland**

# **APPENDIX B**

## **UPDATED OPTIONS ONLY**

Appendix B contains information only on options where study progress to date has produced significant changes in potential site configuration and/or cost from that reported in the JCR report, October 2000 (Appendix C), attached.

POPLAR ISLAND MODIFICATION  
INNOVATIVE USE SITE - COX CREEK  
JAMES ISLAND BENEFICIAL USE  
PARSONS ISLAND BENEFICIAL USE  
LOWER EASTERN NECK ISLAND BENEFICIAL USE  
BARREN ISLAND BENEFICIAL USE  
HOLLAND ISLAND BENEFICIAL USE

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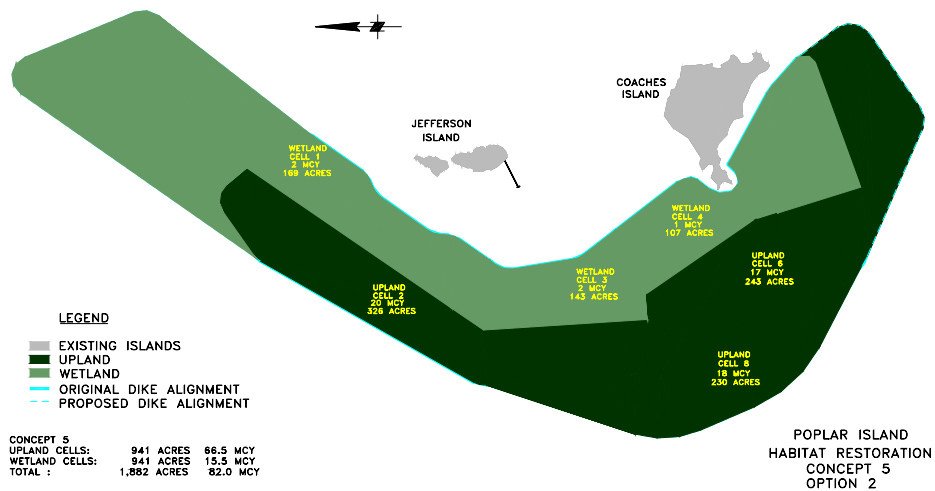
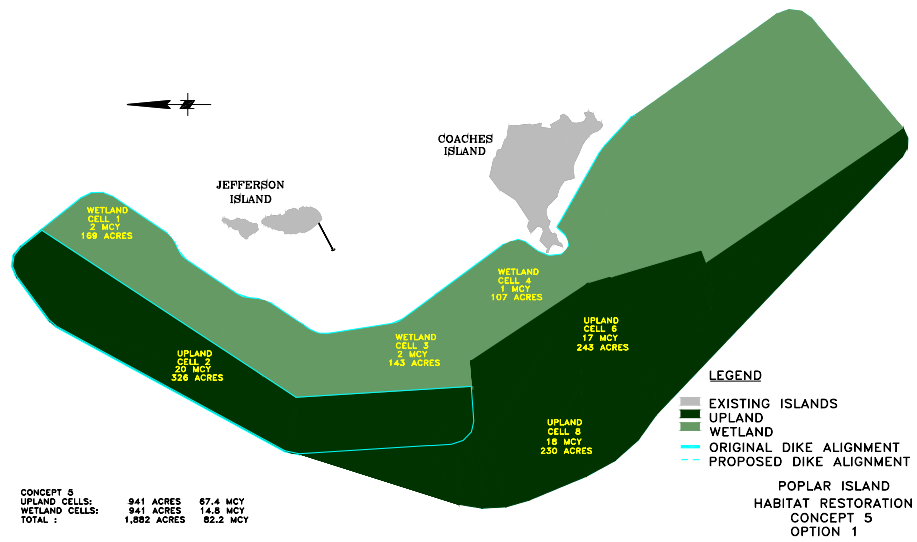
### APPENDIX B

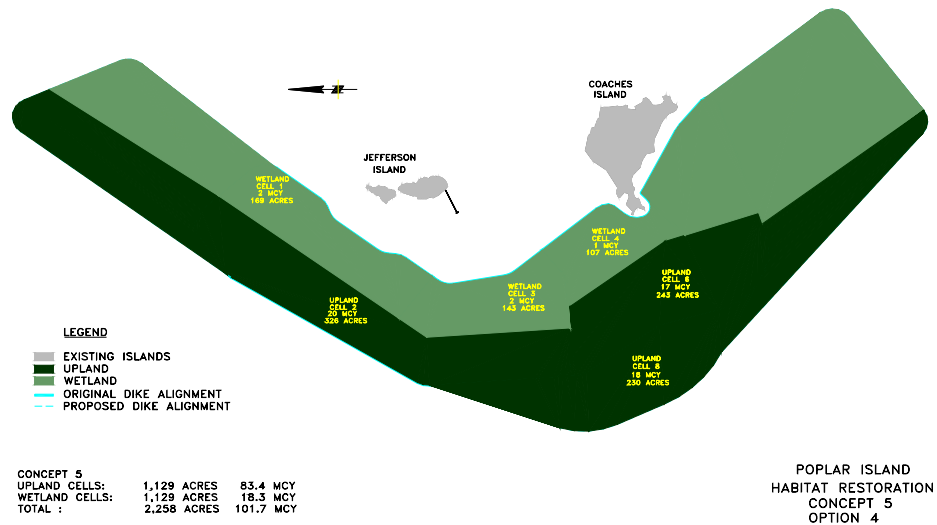
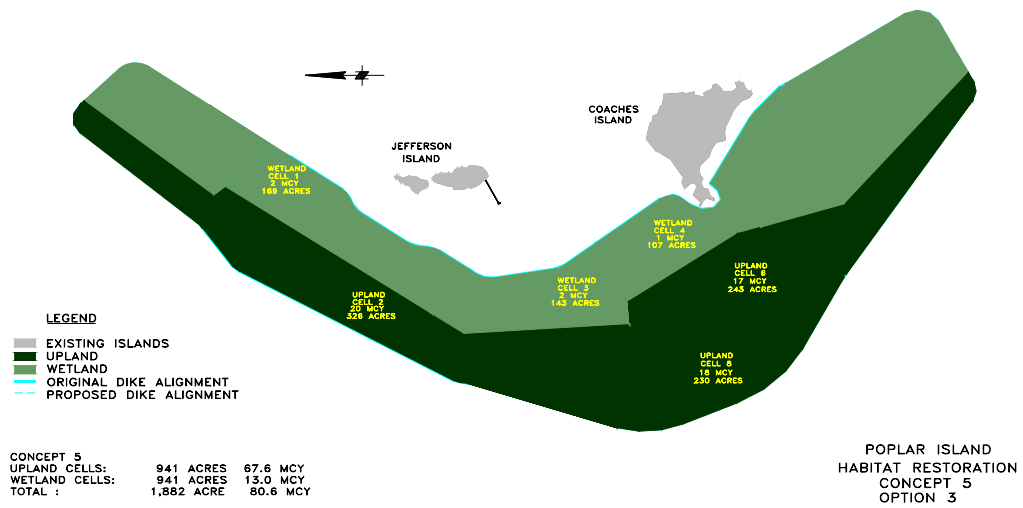
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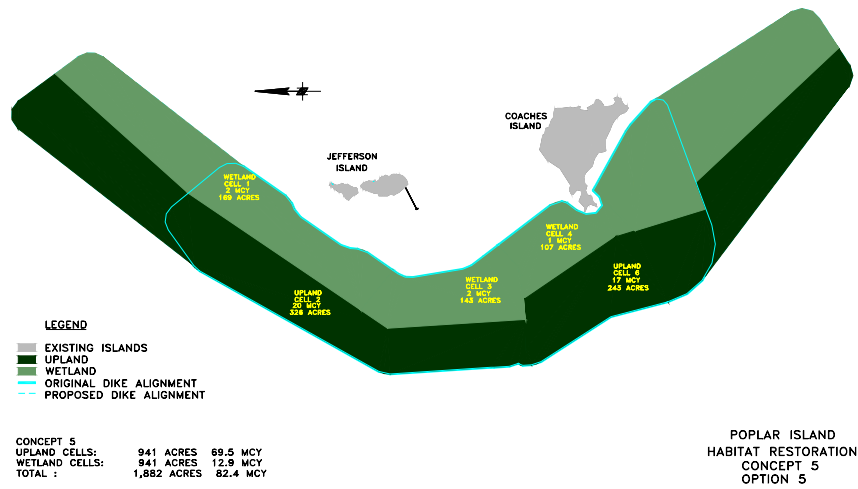
**HIGH PRIORITY FOR STUDY**

**NEAR TERM**

Poplar Island Modification







### **Poplar Island Modification**

Option: Extension of the existing beneficial use island restoration project. Approximately five to six years developmental time frame.

Location: Eastern side of Chesapeake Bay in Talbot County, northwest of Tilghman Island.

Study Ranking: High Priority for Study, Near Term

Study Status: Conceptual phase based on extensive existing database.

Estimated total capacity: 48 - 69 mcy.

Estimated total cost (in thousands): \$554,541 - \$907,512  
(Federal - \$409,088 - \$680,634; State - \$136,363 - \$226,878)

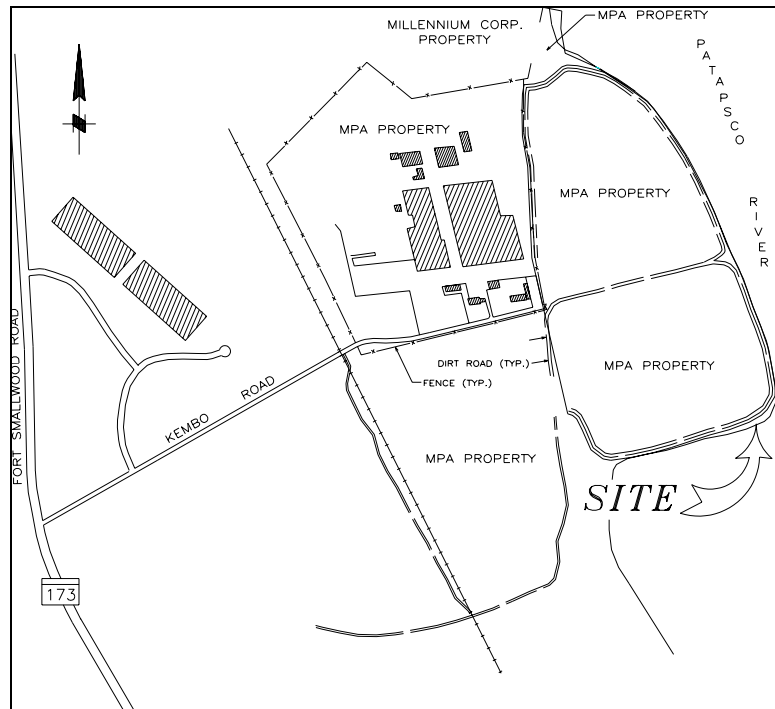
Estimated cost per cy: \$11.00 - \$14.00  
(Federal - \$8.00- \$11.00; State - \$3.00)  
(Costs provided are for planning purposes only and may change)



**HIGH PRIORITY FOR STUDY**

**MID TERM**

**Innovative Use Site - Cox Creek**



### **Cox Creek - Innovative Use**

**Option:** The use of innovative technologies to produce an environmentally suitable and marketable product from contaminated and clean dredged material. The estimated time frame for technology development for 100,000 cubic yard capability is 2 – 5 year. The minimum capability goal is 500,000 cubic yards per year with a target goal of 2 million cubic yards per year.

**Location:** Cox Creek for processing and variable use locations. Cox Creek is located southwest side of Patapsco River, approximately one mile southeast of the Francis Scott Key Bridge, in Anne Arundel County.

**Study Ranking:** High Priority for Study, Mid Term

**Study Status:** Phase I evaluation (Bench Scale) is nearing completion. Several vendors are participating. Vendors could have the option of moving to Phase II (Pilot Phase), or Phase III (Demonstration Phase with MPA approval). MPA is also preparing an RFP for innovative use of clean material.

**Estimated total capacity:** Indefinite

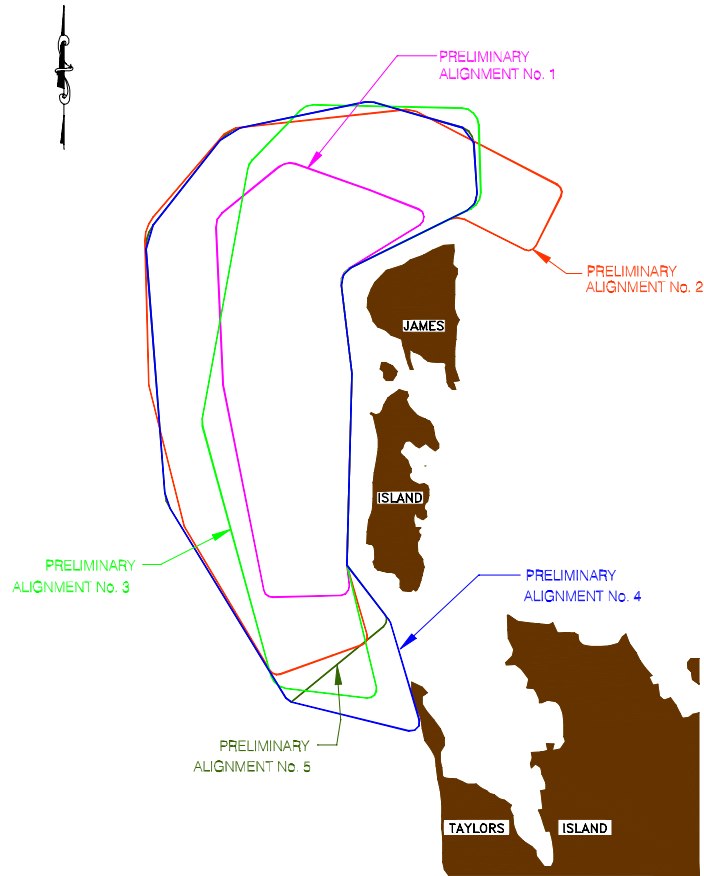
**Estimated total cost (in thousands):** \$12,673 - \$30,000  
(Federal - \$9,505; State - \$3,168)

**Estimated cost per cy:** \$25.00 - \$35.00  
(Costs are dependent on the technology chosen.)  
(Costs provided are for planning purposes only and may change)

**HIGH PRIORITY FOR STUDY**

**LONG TERM**

**James Island Beneficial Use**



### **James Island**

Option: Beneficial use/island restoration site. Developmental timeframe of at least 10 years.

Location: Island remnants located approximately one mile northwest of Taylors Island, at the mouth of the Little Choptank River, in Dorchester County.

Study Ranking: High Priority for Study, Long Term

Study Status: Conceptual studies nearing completion. Pre-feasibility studies are underway. Study completion is expected in winter 2002.

Estimated total capacity: 24 to 82 mcy

Estimated total cost (in thousands): \$371,550 - \$1,221,446  
(Federal - \$278,663 – 916,100; State - \$92,887\_305,366)

Estimated cost per cy: \$14.78 - \$15.91  
(Federal - \$11.09 – \$11.93; State \$3.69 – \$3.98)  
(Costs provided are for planning purposes only and may change)

## **LOWER PRIORITY FOR STUDY**

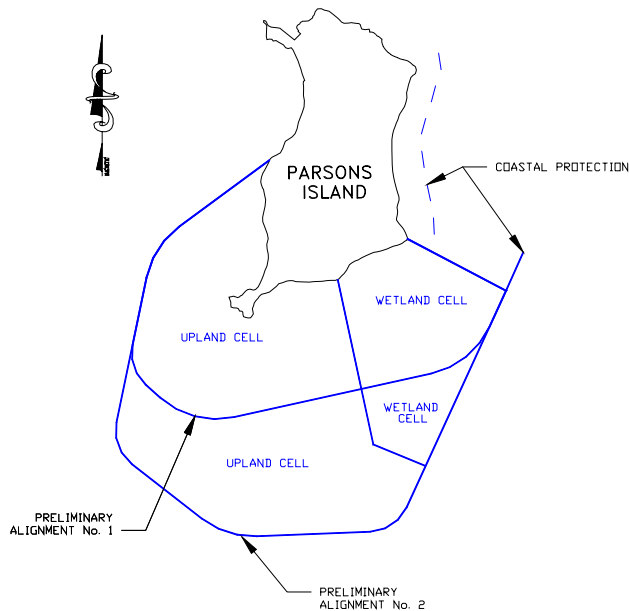
### **MID TERM**

Parsons Island Beneficial Use

Lower Eastern Neck Island Beneficial Use

Furnace Bay

Ocean Placement



### **Parsons Island**

Option: Beneficial use island restoration. An estimated developmental timeframe of at least 3 to 7 years.

Location: Remnant island in Eastern Bay in Queen Anne's County, south of the Kent Narrows.

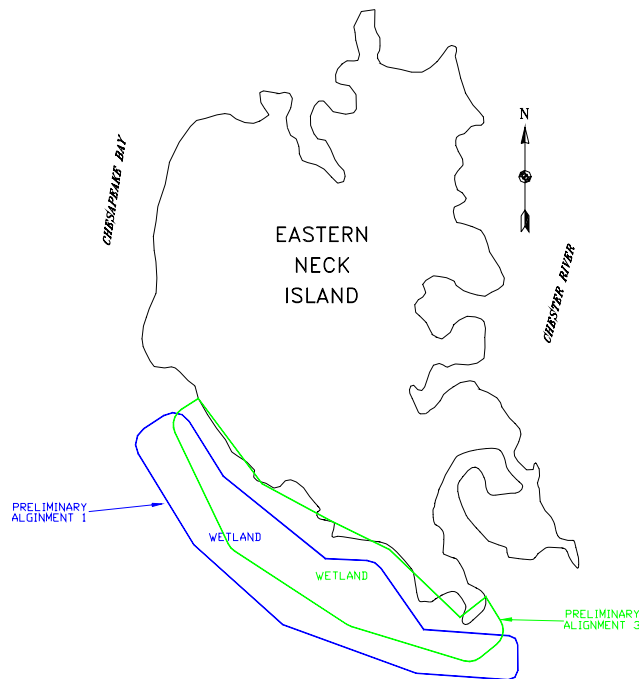
Study Ranking: Lower Priority for Study, Mid Term

Study Status: Conceptual studies nearing completion. Study completion expected in spring 2002.

Estimated total capacity: 4.4 to 11.5 mcy

Estimated total cost (in thousands): \$98,806 - \$222,028  
(Federal - \$74,104 – \$166,521; State - \$24,702 – \$55,507)

Estimated cost per cy: \$19.29 - \$ 22.25  
(Federal - \$14.47 – \$16.69; State - \$4.82 - \$5.56)  
(Costs provided are for planning purposes only and may change)



### **Lower Eastern Neck Island Beneficial Use**

Option: Beneficial use wetland restoration and shoreline stabilization project. An estimated developmental time frame of at least 3 to 10 years.

Location: In Kent County, on the northeast side of the mouth of the Chester River, northeast of the northern end of Kent Island.

Study Ranking: Lower Priority for Study, Mid Term

Study Status: Concept study nearing completion. Study completion expected in spring 2002.

Estimated total capacity: 3.5 to 5.1 mcy.

Estimated total cost (in thousands): \$91,794 - \$121,000  
(Federal - \$68,845 - \$90,825; State - \$22,949 - \$30,275)

Estimated cost per cy: \$23.32 - \$26.15  
(Federal - \$17.49 - \$19.61; State - \$5.83 - \$6.54)  
(Costs provided are for planning purposes only and may change)

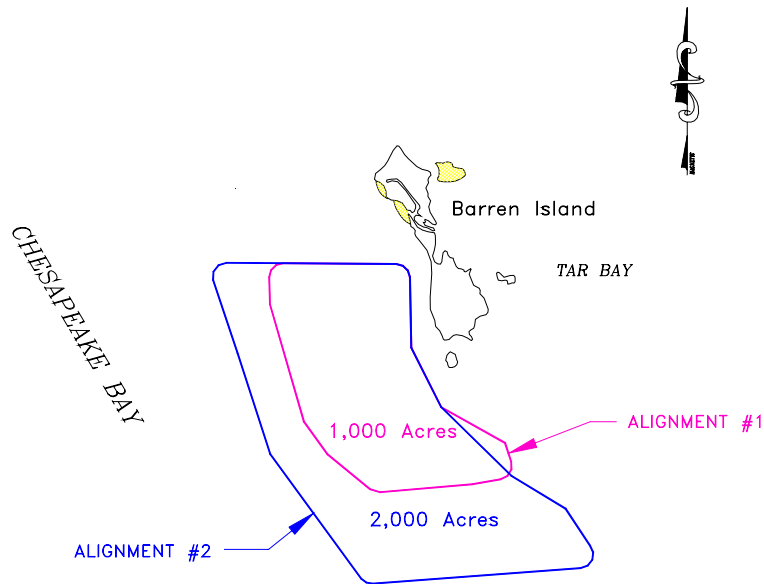
**LOWER PRIORITY FOR STUDY**

**LONG TERM**

**Barren Island Beneficial Use**

**Holland Island Beneficial Use**





### **Barren Island**

Option: Beneficial use/island restoration site. An estimated development timeframe of at least 10 years.

Location: Island is located in Dorchester County, immediately west of Upper Hooper Island and east of the mouth of the Patuxent River.

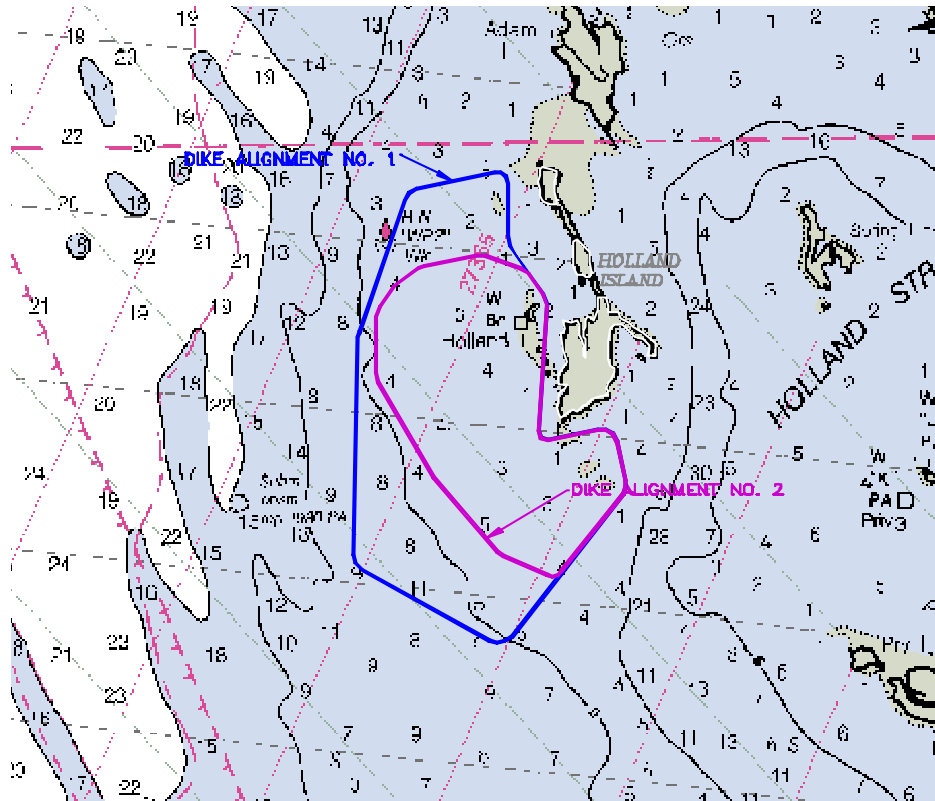
Study Ranking: Lower Priority for Study, Long Term

Study Status: Conceptual study in progress. Study completion anticipated for summer 2002.

Estimated total capacity: 22 to 74 mcy

Estimated total cost (in thousands): \$369,999 – \$1,217,448  
(Federal - \$277,499 - \$913,086; State - \$92,500 - \$304,362)

Estimated cost per cy: \$16.41 - 17.21  
(Federal - \$12.31 – \$12.91; State - \$4.10 - \$4.30)  
(Costs provided are for planning purposes only and may change)



### **Holland Island**

Option: Beneficial use/island restoration site. An estimated developmental time frame of at least 10 years.

Location: Eastern side of middle Bay, northeast of the mouth of the Potomac River, in Dorchester County.

Study Ranking: Lower Priority for Study, Long Term

Study Status: Conceptual studies underway. Study completion expected in summer 2002.

Estimated total capacity: 22 - 63 mcy

Estimated total cost (in thousands): \$413,267 – 1,129,479  
(Federal - \$309,950-\$847,109; State - \$103,317-\$282,370)

Estimated cost per cy: \$17.93 - \$18.79  
(Federal - \$13.45 - \$14.09; State - \$4.48 - \$4.70)  
(Costs provided are for planning purposes only and may change)

**NOT FEASIBLE AT THIS TIME**

**LONG TERM**

Aberdeen Proving Grounds

Sparrows Point